W A S D E P C	INGTON ARTME OL	S T A O G	T E O F Y	_	jerous A Forn	Waste n	Pe	rmit	Ар	pli	ca	tic	n	
Date Received	Reviewed by:	MP	W A	r. Bud	Deric	L Date:	0	9 2	2	2	0	0	8	
Month Day Year	Approved by:	29	H.	100	is)	Date:	0	9 2	2	2	0	0	8	
0 9 1 9 2 0 0 8								•						
I. This form is submitted to: (place an "X" in the appropriate box)														
Request modification to a final status permit (commonly called a "Part B" permit)														
Request a change under interim status														
	Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).													
Establish interim	Establish interim status because of the wastes newly regulated on: (Date)													
List waste codes:														
II. EPA/State ID Number														
W A 7 8 9 0 0	0 8 9	6 7												
III. Name of Facility														
US Department of Energy -	Hanford Facilit	.y												
IV. Facility Location (Phys	sical address n	ot P.O. I	Box or F	Route Num	ber)									
A. Street														
825 Jadwin					01-1-	710.0	_							
City or Town					State	ZIP Code								
Richland County Code					WA	99352								
(if known) County Nam	e													
0 0 5 Benton	-													
B. C. Geographic Lo						D. Facil	ity Ex	kisten						
Type Latitude (degrees	, mins, secs)	Longit	ude (de	grees, min	s, secs)	Month	D	ay		Yea	r			
F Refer to TOPO Ma	p (Section XV.)					0 3	(0 2		1	9	4	3	
V. Facility Mailing Address	SS													
Street or P.O. Box														
P.O. Box 550														
City or Town					State	ZIP Cod	е							
Richland		_			WA	99352			· <u> </u>	_	_	_	_	

VI. Facility contact (Person to be contacted rega	arding	g waste acti	vities a	t fac	ility)								
Name (last)			(first)										
Brockman			David										
Job Title			Phone Number (area code and number)										
Manager			(509) 3	76-7	395								
Contact Address													
Street or P.O. Box													
P.O. Box 550													
City or Town			State	ZI	P Code								
Richland			WA	99	352								
VII. Facility Operator Information													
A. Name						Р	hone	Numb	er				
Department of Energy Owner/Operator			15.			,	,	76-7395					
CH2M HILL Plateau Remediation Company Co-Ope Street or P.O. Box	erator	for Integrate	ed Dispo	osal I	acility*	(5	09) 37	76-0556	5 *				
P.O. Box 550													
P.O. Box 1600 *													
City or Town		State	ZI	P Code									
Richland			WA	99	352								
B. Operator Type F													
C. Does the name in VII.A reflect a proposed cha	nge ii	n operator?		Y	es 🔀	No	Co	o-Oper	ator*	change			
If yes, provide the scheduled d	ate fo	r the change	: Mon	h		ay			Year	•			
			1	0	0	1	<u></u>	2	0	0 8			
D. Is the name listed in VII.A. also the owner? If	yes,	skip to Sec	tion VIII	.C.				Yes	<u> </u>	No			
VIII. Facility Owner Information													
A. Name			Phone	Nu	nber (ar	ea c	ode a	nd nu	mber))			
David A. Brockman, Operator/Facility-Property Ow	ner		(509) 3	76-7	395								
Street or P.O. Box													
P.O. Box 550													
City or Town			State	Z	IP Code								
Richland			WA	9	9352								
B. Owner Type F													
C. Does the name in VIII.A reflect a proposed ch	ange	in owner?		Ye	s 🛚	No							
If yes, provide the scheduled date	for th	ne change:	Montl	1	Da	ay			Year				
									\perp				
IX. NAICS Codes (5/6 digit codes)													
A. First	B.	Second			Adminis	tratio	n of Ai	r & Wati	er Reso	urce &			
5 6 2 2 1 Waste Treatment & Disposal	9	2 4	1 1	0	Solid Wa								
C. Third Research & Development in the	D.	Fourth											
5 4 1 7 1 Research & Development in the Physical, Engineering, & Life Sciences													

Χ.	K. Other Environmental Permits (see instructions)												
A. P	ermit	Туре	В. І	Permi	it Nur	nber							C. Description

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The Integrated Disposal Facility (IDF) is an expandable lined landfill located in the 200 East Area of the Hanford Facility. The landfill is divided lengthwise into distinct east and west cells, one for disposal of low-level radioactive waste (the east cell) and the other for disposal of mixed waste (the west cell). The cell for disposal of low-level radioactive waste is outside the scope of this permit.

Mixed waste disposed at the IDF is currently limited to vitrified low-activity waste (LAW) from the Waste Treatment Plant (WTP) and Demonstration Bulk Vitrification System (DBVS). Additionally, mixed waste generated by IDF operations will be disposed of in IDF. (The IDF Permit requires modification if other waste streams are proposed for disposal.) The vitrified waste form generated by both the WTP and the DBVS facilities is known as Immobilized Low Activity Waste (ILAW) . The amount shown in Section XII of 8.2-hectare meters (82,000 cubic meters) is the waste capacity of the initial construction. The amount will be revised as required for future expansion to accommodate the entire waste volume through an approved permit modification.

D80

Mixed radioactive high level wastes stored in the Double-Shell and Single-Shell Tank System carry the characteristic dangerous waste numbers D002, and D004 through D011. The specified technology based treatment standard for high-level radioactive waste as described in 40 CFR 268.40 (vitrification) will be used to produce the waste form that will be placed in steel canisters or steel boxes. Tank waste will meet this vitrification standard as the waste exits at the Waste Treatment Plant or Demonstration Bulk Vitrification System Facility. (Permit conditions for the WTP and DBVS require that the D001 and D003 waste codes be removed prior to the waste stream entering these facilities.)

IDF operational activities (including decontamination, cleanup, and maintenance) will generate a small amount of waste. Waste that can meet IDF waste acceptance without treatment will be buried at the IDF. All other IDF operational waste will be managed pursuant to WAC 173-303-200 and either sent to a 90-day accumulation area or directly to another permitted TSD for treatment. Treated IDF operational waste will either be buried at IDF or sent to another permitted Hanford TSD for final disposition.

S01

Process Code S01 (container storage) has been included within this Part A Form in the event that storage is required before final disposal (e.g., to support the staging and confirmation process of the waste or cooling of vitrified waste if required).

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities							Section XIII. Other Process Codes											
			_		B. Process Capac	s Design city	C.				Α.		B Process Capa	s Design city	C.			
	ine mber		Proc Code: ter co	s	1. Amount	2. Unit of Measure (enter code)	Process Total Number of Units		ine mber	Process Codes (enter code)			1. Amount	2. Unit of Measure (enter code)	Process Total Number of Units	D. Process Description		
x	1	s	0	2	1,600	G	002	х	1	Т	0	4	700	С	001	In situ vitrification		
X	2	Т	0	3	20	Е	001											
X	3	Т	0	4	700	С	001											
	1	D	8	0	8.2	F	1		1									
	2	S	0	1	*	*	1		2									
	3								3									
	4								4									
	5								5									
	6								6									
	7								7									
	8								8									
	9								9									
1	0							1	0									
1	1							1	1									
1	2							1	2									
1	3							1	3									
1	4							1	4									
1	5							1	5									
1	6							1	6									
1	7							1	7									
1	8							1	8									
1	9							1	9									
2	0							2	0									
2	1							2	1									
2	2							2	2									
2	3							2	3									
2	4							2	4									
2	5							2	5									

XIV. Description of Dangerous Wastes

Example for completing this section: A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

	Line	Δ.	Dan	~~~		B. Estimated	C. Unit of	D. Processes								
N	umber			gero e No.		Annual Quantity of Waste	Measure	(1) Process Codes				les		(2) Process Description [If a code is not entered in D (1)]		
X	1	D	0	0	2	400	Р	s	0	1	T	0	1			
X	2	D	0	0	1	100	Р	S	0	2	T	0	1			
X	3	D	0	0	2											Included with above
	1	D	0	0	2	20,000,000	K	D	8	0						Includes Debris
	2	D	0	0	4		K	D	8	0						Includes Debris
	3	D	0	0	5		K	D	8	0						Includes Debris
	4	D	0	0	6		K	D	8	0						Includes Debris
	5	D	0	0	7		K	D	8	0						Includes Debris
	6	D	0	0	8		K	D	8	0						Includes Debris
	7	D	0	0	9		K	D	8	0						Includes Debris
	8	D	0	1	0		K	D	8	0						Includes Debris
	9	D	0	1	1		K	D	8	0						Includes Debris
	10	D	0	1	8		K	D	8	0						Includes Debris
	11	D	0	1	9		K	D	8	0						Includes Debris
	12	D	0	2	2		K	D	8	0						Includes Debris
	13	D	0	2	8		K	D	8	0						Includes Debris
	14	D	0	2	9		K	D	8	0						Includes Debris
	15	D	0	3	0		K	D	8	0						Includes Debris
	16	D	0	3	3		K	D	8	0						Includes Debris
	17	D	0	3	4		K	D	8	0						Includes Debris
	18	D	0	3	5		K	D	8	0						Includes Debris
	19	D	0	3	6		K	D	8	0						Includes Debris
	20	D	0	3	8		K	D	8	0						Includes Debris
	21	D	0	3	9		K	D	8	0						Includes Debris
	22	D	0	4	0		K	D	8	0						Includes Debris
	23	D	0	4	1		K	D	8	0						Includes Debris
	24	D	0	4	3		K	D	8	0						Includes Debris
	25	W	Т	0	1		K	D	8	0						Includes Debris

Continuation of Section XIV. Description of Dangerous Waste

Line			gero e No.		B. Estimated Annual	C. Unit of Measure								D.	Proce	ess
Number			code		Quantity of Waste	(enter code)		(1	l) Pro	ces	s Co	des ((ente	er)		(2) Process Description [If a code is not entered in D (1)]
26	W	Т	0	2		K	D	8	0							Includes Debris
27	W	Р	0	1		K	D	8	0							Includes Debris
28	W	Р	0	2		K	D	8	0							Includes Debris
29	F	0	0	1		K	D	8	0							Includes Debris
30	F	0	0	2		K	D	8	0							Includes Debris
31	F	0	0	3		K	D	8	0							Includes Debris
32	F	0	0	4		K	D	8	0							Includes Debris
33	F	0	0	5		K	D	8	0							Includes Debris
34	F	0	3	9		K	D	8	0							Includes Debris
35	D	0	0	1	600,000*	K	S	0	1*							Includes Debris
36	D	0	0	2		K	S	0	1*							Includes Debris
37	D	0	0	3		K	S	0	1*							Includes Debris
38	D	0	0	4		K	S	0	1*							Includes Debris
39	D	0	0	5		K	S	0	1*							Includes Debris
40	D	0	0	6		K	S	0	1*							Includes Debris
41	D	0	0	7		K	S	0	1*							Includes Debris
42	D	0	0	8		K	S	0	1*							Includes Debris
43	D	0	0	9		K	S	0	1*							Includes Debris
44	D	0	1	0		K	S	0	1*							Includes Debris
45	D	0	1	1		K	S	0	1*							Includes Debris
46	D	0	1	8		K	S	0	1*							Includes Debris
47	D	0	1	9		K	S	0	1*							Includes Debris
48	D	0	2	2		K	S	0	1*							Includes Debris
49	D	0	2	8		K	S	0	1*							Includes Debris
50	D	0	2	9		K	S	0	1*							Includes Debris
51	D	0	3	0		K	S	0	1*							Includes Debris
52	D	0	3	3		K	S	0	1*							Includes Debris
53	D	0	3	4		K	S	0	1*							Includes Debris
54	D	0	3	5		K	S	0	1*							Includes Debris
55	D	0	3	6		K	S	0	1*							Includes Debris
56	D	0	3	8		K	S	0	1*							Includes Debris
57	D	0	3	9		K	S	0	1*							Includes Debris
58	D	0	4	0		K	S	0	1*							Includes Debris

Continuation of Section XIV. Description of Dangerous Waste

Line	A.	Dan Wast	gero	us	B. Estimated Annual	C. Unit of Measure	•										
Number		enter			Quantity of Waste	(enter code)		(1	l) Pro	cess	Co	des (ente	r)		(2) Process Description [If a code is not entered in D (1)]	
59	D	0	4	1		K	S	0	1*							Includes Debris	
60	D	0	4	3		K	S	0	1*							Includes Debris	
61	W	Т	0	1		K	S	0	1*							Includes Debris	
62	W	Т	0	2		K	S	0	1*							Includes Debris	
63	W	Р	0	1		K	S	0	1*							Includes Debris	
64	W	Р	0	2		K	S	0	1*							Includes Debris	
65	F	0	0	1		K	S	0	1*							Includes Debris	
66	F	0	0	2		K	S	0	1*							Includes Debris	
67	F	0	0	3		K	S	0	1*							Includes Debris	
68	F	0	0	4		K	S	0	1*							Includes Debris	
69	F	0	0	5		K	S	0	1*							Includes Debris	
70	F	0	3	9		K	S	0	1*							Includes Debris	
71																	
72																	
73																	
74																	
75																	
76																	
77																	
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84																	
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89																	
90																	

XV. Map

Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.

Topographic map is located in the Ecology Library

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).

XVIII. Certifications

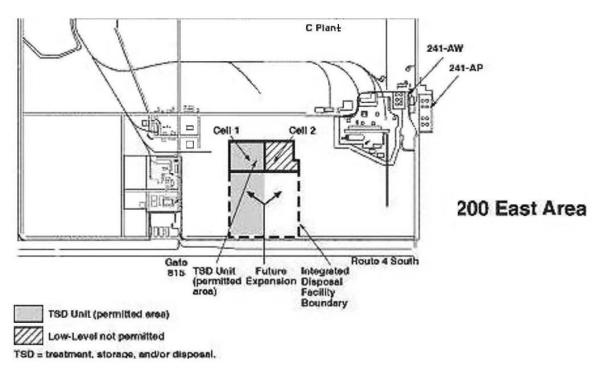
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator Name and Official Title (type or print) David A. Brockman, Manager	Signature S. Shoop ger	Date Signed 9/19/08
U.S. Department of Energy Richland Operations Office		
Co-Operator* Name and Official Title (type or print)	Signature	Date Signed
John G. Lehew, III President and Chief Executive Officer CH2M HILL Plateau Remediation Company	48h	9/2/01
Co-Operator - Address and Telephone Number*		
P.O. Box 1600		
Richland, WA 99352 (509) 376-0556		
Facility-Property Owner Name and Official Title (type or print)	Signature	Date Signed
David A. Brockman, Manager U.S. Department of Energy Richland Operations Office	Doug S. Shoop for	9/19/08

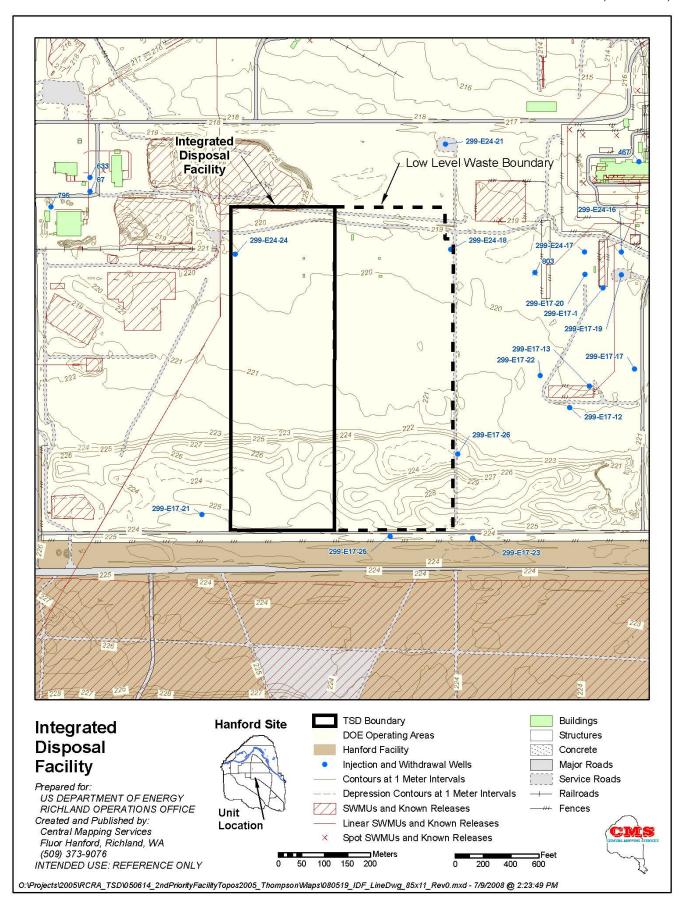
Comments
In Section VII. Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

Integrated Disposal Facility





IDF 200 East Area Locational References



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